



LVVTA - Limitations of LVV Certifier Categories

*This document is an excerpt from issue #8 of the Low Volume Vehicle Operating Requirements Schedule (ORS).
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Introduction

The vehicle modification and construction industry is both diverse and complex, so much so that very few, if any, people have the background, knowledge, and skills, to be able to competently LVV certify every type of modification and construction feature that exists. LVVTA has, therefore, established a range of LVV Certifier categories, that enable an individual LVV Certifier's particular areas of background, knowledge, and skills to be matched to certain LVV certification activities, in order to ensure that each LVV Certifier is involved only in those particular areas in which he has the necessary level of competence. Sub-section 3.1 provides the available LVV certification categories for which an LVV Certifier may be authorised, together with the operational boundaries of each of those categories.

Category 1A Modified Production – Limited

An LVV Certifier appointed to certify under LVV Certifier category '1A Modified Production - Limited' is authorised to certify Classes M-group and NA modified production low volume vehicles that feature:

- (a) all engine and drive-train conversions and modifications covered by *LVV Standard 85-40 (Engine & drive-train Conversions)*; but no structural modifications to the chassis, sub-frame or suspension cross-members, and the engine must be in the original location; and
- (b) all braking modifications covered by *LVV Standard 35-00 (Braking Systems)*, including rotor and drum changes, disc and drum adaptations, but no changes, substitutions, or modifications to OE stub axles; and
- (c) 'bolt-up' OEM steering components or OEM steering system substitution, including bolt-on OEM manual or power steering conversions, but no changes, substitutions, or repositioning of any geometry-critical steering components, and no modifications to any individual steering components or mounting systems; and
- (d) all suspension modifications covered by *LVV Standard 195-00 (Suspension Systems)*, but no structural modifications to the chassis, sub-frame or suspension cross-members, no complete suspension assembly change, no change to suspension configuration, and no airbag or hydraulic suspension system conversions; and
- (e) all wheel and tyre changes and modifications covered by *LVV Standard 205-00 (Wheels & Tyres)*; and
- (f) seat changes covered by 2.5 in *LVV Standard 185-00 (Seats & Seat Anchorages)*, but no seatbelt anchorage retro-fittings, and no stressed seat changes or installations; and
- (g) all interior modifications covered by *LVV Standard 155-40 (Interior Impact)*; and
- (h) all external projection and field of vision modifications covered by *LVV Standard 100-30 (External Projections)*; and
- (i) all lighting modifications and substitutions covered by *LVV Standard 125-00 (Lighting Equipment)*; and
- (j) all glazing, and windscreen wipe and wash system modifications and substitutions, covered by *LVV Standard 200-00 (Glazing & Vision)*; and
- (k) all fuel system modifications and custom-built fuel systems, and substitution of non-OE fuel tanks and systems.

Category 1B Modified Production – Extended

An LVV Certifier appointed to certify under LVV Certifier category '1B Modified Production - Extended' is authorised to certify Classes M-group and NA modified production low volume vehicles that feature:

- (a) all seatbelt anchorage installations covered by *LVV Standard 175-00 (Seatbelt Anchorages)*; and
- (b) all seat design, construction, and installations, including stressed seats, covered by *LVV Standard 185-00 (Seats & Seat Anchorages)*; and
- (c) all adaptive control systems to assist disabled drivers covered by *LVV Standard 45-30 (Disability Adaptive Control Systems)*; and
- (d) all frontal impact protection system modifications covered by *LVV Standard 155-30 (Frontal Impact)*.

Category 1C Modified Production – Structures

An LVV Certifier appointed to certify under LVV Certifier category '1C Modified Production - Structures' is authorised to certify Classes M-group and NA modified production low volume vehicles that feature:

- (a) all body modification, restructuring, and configuration changes, that retain the vehicle manufacturer's occupant protection systems and structure forward of the A-pillars, and complete (bolt off-on OE-body type) body substitution; and
- (b) all chassis and sub-frame modifications, but not complete chassis substitution or complete chassis or rear half-chassis design and construction, or complete sub-frame changes.

Category 1D Modified Production – Advanced & Scratch-built

An LVV Certifier appointed to certify under LVV Certifier category '1D Modified Production - Structures' is authorised to certify Classes M-group and NA scratchbuilt, and modified production M-group and NA low volume vehicles that feature:

- (a) design and construction of custom-built suspension systems, and substitution of major non-OE suspension components and complete non- OE suspension assemblies; and
- (b) design and construction of custom-built steering systems, and relocation or substitution of major non-OE steering components and complete non- OE steering assemblies; and
- (c) design and construction of custom-built braking systems, and substitution of major non-OE braking components and complete non-OE braking assemblies; and
- (d) repositioning of an engine, gearbox, or differential to a different location within a vehicle; and
- (e) all body restructuring, configuration changes, body type or style substitution, and complete body design and construction; and
- (f) major modifications and complete substitution of chassis or sub-frames, and complete chassis or rear half-chassis design and construction.

Category RH Modified Production – Right-hand Drive Conversions

An LVV Certifier appointed to certify under LVV Certifier category 'RH Modified Production – Right-hand Drive Conversions' is authorised to certify Classes Mgroup and NA modified production low volume vehicles that are modified production vehicles which have been converted from left-hand drive to right-hand drive, covered by *LVV Standard 190-70 (Right-hand Drive Steering Conversions)*.

Page 3 of 4 Category EX – Exhaust Noise and Gas Emissions

An LVV Certifier appointed to certify under LVV Certifier category 'EX – Exhaust Noise and Gas Emissions' is authorised to certify Classes M-group, NA, and L-group low volume vehicles for exhaust gas emissions covered by *LVV Standard 90-10 (Exhaust Gas Emissions)*, and exhaust noise emissions covered by *LVV Standard 90- 20 (Exhaust Noise Emissions)*.

Category 2A Motorcycles - Modified Production

An LVV Certifier appointed to certify under LVV Certifier category '2A Motorcycles - Modified Production' is authorised to certify Class L-group modified production low volume vehicles that feature:

- (a) all hand and foot control system modifications and adaptations; and
- (b) all suspension modifications including substitution of OE and aftermarket suspension components and assemblies, but not custom fabricated front ends or swing-arm assemblies; and
- (c) all steering modifications including substitution of OE and aftermarket steering components and assemblies, but not custom-fabricated components or complete steering head adaptation; and
- (d) all braking modifications including substitution of OE and aftermarket brake components and assemblies, but not custom-fabricated components; and
- (e) all engine and drive-train conversions and modifications; and
- (f) frame and body modifications, but not complete design and construction of new frames.

Category 2B Motorcycles – Advanced and Scratch-built

An LVV Certifier appointed to certify under LVV Certifier category '2B Motorcycles - Scratch-built' is authorised to certify Class L-group scratch-built, and modified production low volume vehicles that feature:

- (a) design and construction of custom-built suspension systems, including complete custom-fabricated front-ends and swing-arm assemblies; and
- (b) design and construction of custom-built steering systems, including custom-fabricated steering components and steering head adaptations; and
- (c) design and construction of custom-built braking systems, including custom-fabricated braking components; and
- (d) all major frame and body modifications, complete substitution of frames and bodies, and complete frame and body design and construction.

Category 2C Trikes - Modified Production & Scratch-built

An LVV Certifier appointed to certify under LVV Certifier category '2C Trikes – Modified Production & Scratch-built' is authorised to certify low volume vehicles that:

- (a) are modified production LE or MA-class trikes, and are covered by *LVV Standard 198-00 (Trikes with Motorcycle Controls)*; or
- (b) are scratch-built LE or MA-class trikes, and are covered by *LVV Standard 198-00 (Trikes with Motorcycle Controls)*.

Category 3A Disability Adaptation – Limited

3.1(11) An LVV Certifier appointed to certify under LVV Certifier category '3A Disability Adaptation' is authorised to certify Classes M-group and NA low volume vehicles that feature:

(a) modifications carried out for the purpose of enabling a person with a disability to operate a braking system, accelerator system, steering system, or any other vehicle controls, provided that the integrity and rigidity of the permanent vehicle structure is not affected by the modifications; and

(b) modifications carried out for the purpose of enabling a person with a disability, and a care-giver or attendant, to enter or exit a vehicle, or to be seated or restrained within a vehicle, provided that the integrity and rigidity of the permanent vehicle structure is not affected by the modifications.

Category 3B Disability Adaptation – Structures

An LVV Certifier appointed to certify under LVV Certifier category '3B Disability Adaptation - Structural' is authorised to certify Classes M-group and NA low volume vehicles that feature:

(a) all modifications carried out for the purpose of enabling a person with a disability to operate a braking system, accelerator system, steering system, or any other vehicle controls, including those modifications that affect the integrity and rigidity of the permanent vehicle structure; and

(b) all modifications carried out for the purpose of enabling a person with a disability, and a care-giver or attendant, to enter or exit a vehicle, or to be seated or restrained within a vehicle, including those modifications that affect the integrity and rigidity of the permanent vehicle structure.

Category 4A Electric Vehicles – Modified Production

3.1(13) An LVV Certifier appointed to certify under LVV Certifier category '4A Electric Vehicles – Modified Production' is authorised to certify modified production Classes M-group and NA low volume vehicles that are converted to electric or hybrid motive power.

Category 4B Electric Vehicles – Scratch-built

An LVV Certifier appointed to certify under LVV Certifier category '4B Electric Vehicles – Scratch-built' is authorised to certify scratch-built Classes M-group and NA low volume vehicles that are constructed using electric or hybrid motive power.

Category AC - Authority Card

An LVV Certifier appointed to certify under LVV Certifier category 'AC - Authority Card' is authorised to certify low volume vehicles in accordance with 2.12 of the LVV Code.

NOTE: In the case of any previously LVV certified low volume vehicle that has been subsequently modified, the LVV Certifier undertaking the LVV certification of the subsequent modifications must be authorised for the LVV certification category that would have been required for the original certification of the vehicle.

For example, a scratch-built sports car (originally requiring Category 1D) with a subsequent suspension modification must be LVV certified by an LVV Certifier authorised for 1D category. This is because a comprehensive knowledge of the vehicle in question is required in order to be able to establish the flow-on influences of any subsequent modifications on inter-related aspects of the original vehicle's design.